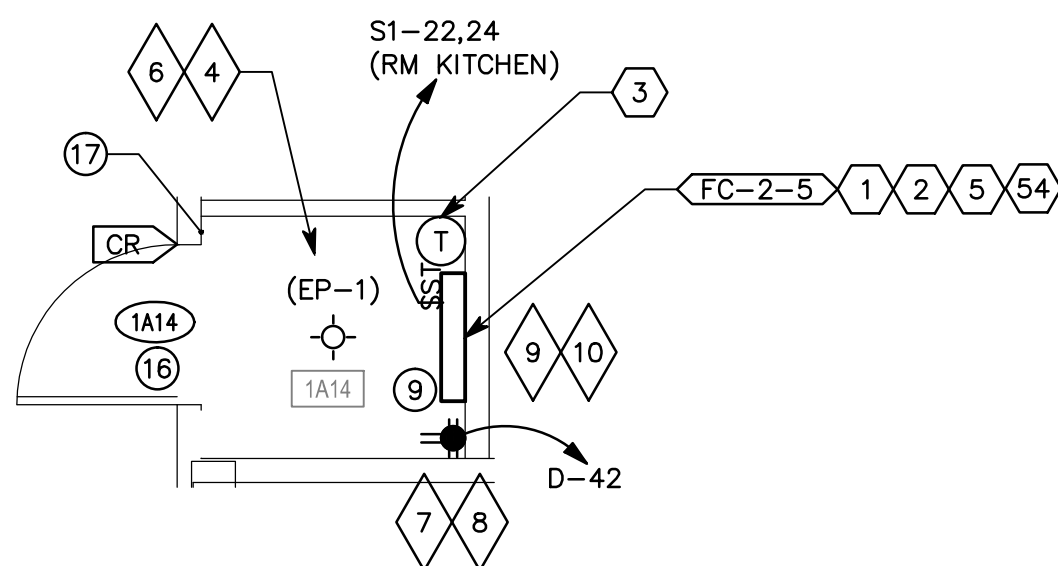


A1

SCALE: 1/4"=1'-0"

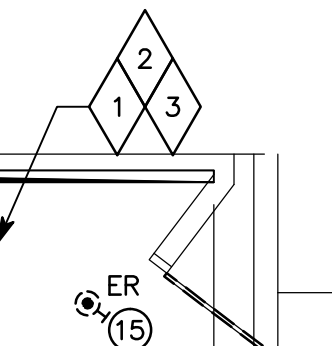


B3

SCALE: 1/4"=1'-0"

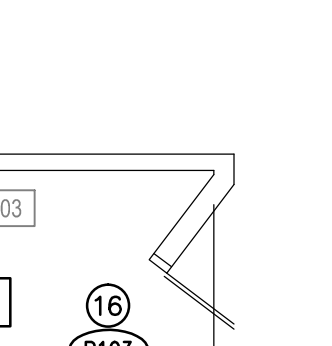
Ⓒ1

SCALE: 1/4"=1'-0"



E1

SCALE: 1/4"=1'-0"



F1

SCALE: 1/4"=1'-0"

CONSULTANTS:

CONSULTANTS:



17 Exchange Place, Salt Lake City, UT 84111
office: (801) 463-7103, mobile: (801) 541-7533
fax: (801) 463-7966, www.tsa-usa.com

Tracy D. Stocking, AIA tracy@tsa-usa.com



324 S. State St., Suite 400
Salt Lake City, UT 84111
800-678-7077
801-328-5151
fax: 801-328-5155
www.spectrum-engineers.com

Tracy D. Stocking, AIA tracy@tsa-usa.com

MECHANICAL KEYNOTES

A GENERAL KEYNOTING SYSTEM HAS BEEN UTILIZED TO STREAMLINE THE IDENTIFICATION OF THE SCOPE OF WORK. THESE KEYNOTES ARE IDENTICAL ON ALL SHEETS THROUGHOUT THE SET. THE UNIQUE SCOPE OF THE WORK FOR INDIVIDUAL ROOMS IS IDENTIFIED BY THE PLACEMENT OF KEYNOTE NUMBERS ON EACH INDIVIDUAL PLAN.

35. PATCH & REPAIR (E) EPOXY FLOOR & PROVIDE NEW EPOXY BASE FOR NEW WALL – MATCH EXISTING
36. RE-PAINT (E) WALL AS NECESSARY TO NEAREST INSIDE/OUTSIDE CORNER. MATCH (E) WALL COLOR, SHEEN & TEXTURE
37. (E) DOOR, FRAME & HARDWARE ARE TO REMAIN – PROTECT IN PLACE
38. NOT USED
39. NOT USED
40. NOT USED
41. NOT USED
42. NOT USED
43. NOT USED
44. NOT USED
45. PROVIDE AND INSTALL NEW 5/8" GYPSUM BOARD WHERE WOOD PANEL WAS REMOVED
46. NOT USED
47. REMOVE (E) CARD READER & REQUEST TO EXIT DEVICES COMPLETE
48. NOT USED
49. NOT USED
50. PATCH & REPAIR (E) VCT FLOORING AS NECESSARY
51. NOT USED
52. NOT USED
53. NOT USED
54. NOT USED
55. NOT USED
56. REMOVE (E) HOLLOW METAL FRAME IN SUCH A WAY AS TO NOT DISTURB (E) CMU/CONCRETE WALL
57. NOT USED
58. REMOVE PLASTER AND LATH WALL & CEILING COMPLETE – WHERE SHOWN DASHED
59. PROVIDE AND INSTALL NEW METAL STUD WALL WITH GYPSUM BOARD – SEE DETAIL 2/GES02
60. NOT USED
61. NOT USED
62. RE-ADHERE (E) RUBBER BASE
63. PROVIDE & INSTALL MISSING VCT FLOORING & RUBBER BASE – MATCH EXISTING
64. PROVIDE & INSTALL MISSING VCT FLOORING – MATCH EXISTING

28. ROOF MOUNTED CONDENSING UNIT CU-3
SERVES UNITS: FC-24-1 (RM 4C22B-1)
FC-21-1 (RM 3C20B-1), FC-15-1 (RM
2C20B-1), FC-18-1 (RM 2EAC-1),
FC-10-1 (RM 1F02B-1), FC-5-1 (RM
1C12-1), FC-7-1 (RM 1EAC-1), FC-28-
(RM GB05-1), FC-29-1 (RM GB08-1),
AS SHOWN ON SCHEMATIC LOCATED ON
SHEET GE603.
29. ROOF MOUNTED CONDENSING UNIT CU-2
SERVES UNITS: FC-2-1 (RM 1B05-1),
FC-4-1 (RM 1B29-1), FC-11-1 (RM
1G14-1), FC-14-1 (RM 2B09-1),
FC-20-1 (RM 3B09-1), FC-25-1 (RM
4D05-1), FC-26-1 (RM 5B13B-1),
FC-30-1 (RM C10B-1), FC-32-1 (RM
4B13-1), AS SHOWN ON SCHEMATIC
LOCATED ON SHEET GE603.
30. ROOF MOUNTED CONDENSING UNIT CU-1
SERVES UNITS: FC-1-7 (RM 1A38-7),
AS SHOWN ON SCHEMATIC LOCATED ON
SHEET GE605.
31. ROOF MOUNTED CONDENSING UNIT CU
SERVES UNITS: FC-2-7 (RM 1C10-7),
AS SHOWN ON SCHEMATIC LOCATED ON
SHEET GE605.
32. ROOF MOUNTED CONDENSING UNIT CU-1
SERVES UNITS: FC-2-8 (RM 2A02A-8),
AS SHOWN ON SCHEMATIC LOCATED ON
SHEET GE605.
33. CONDENSING UNIT CU-18 MOUNTED ON
GRADE SERVES UNITS: FC-1-18 (RM
1A06-18), AS SHOWN ON SCHEMATIC
LOCATED ON SHEET GE605.
34. ROOF MOUNTED CONDENSING UNIT CU-2
SERVES UNITS: FC-1-13 (RM 1A02-13),
AS SHOWN ON SCHEMATIC LOCATED ON
SHEET GE605.
35. CONDENSING UNIT CU-19 MOUNTED ON
GRADE SERVES UNITS: FC-1-45 (RM
GA04-45), AS SHOWN ON SCHEMATIC
LOCATED ON SHEET GE605.
36. CONDENSING UNIT CU-20 MOUNTED ON
GRADE SERVES UNITS: FC-1-11 (RM
1A25-11), AS SHOWN ON SCHEMATIC
LOCATED ON SHEET GE605.
37. ROOF MOUNTED CONDENSING UNIT CU-1
SERVES UNITS: FC-2-5 (RM 1A14-5),
AS SHOWN ON SCHEMATIC LOCATED ON
SHEET GE605.
38. FAN COIL UNIT SERVED BY CU-1 AS
SHOWN ON MECHANICAL PLAN LOCATED
ON SHEET F1/GE102.
39. FAN COIL UNIT SERVED BY CU-4 AS
SHOWN ON MECHANICAL PLAN LOCATED
ON SHEET C1/GE104.
40. FAN COIL UNIT SERVED BY CU-5 AS
SHOWN ON MECHANICAL PLAN LOCATED
ON SHEET C1/GE104.
41. FAN COIL UNIT SERVED BY CU-6 AS
SHOWN ON MECHANICAL PLAN LOCATED
ON SHEET C1/GE105.
42. FAN COIL UNIT SERVED BY CU-7 AS
SHOWN ON MECHANICAL PLAN LOCATED
ON SHEET C1/GE105.
43. FAN COIL UNIT SERVED BY CU-8 AS
SHOWN ON MECHANICAL PLAN LOCATED
ON SHEET C1/GE106.
44. FAN COIL UNIT SERVED BY CU-10 AS
SHOWN ON MECHANICAL PLAN LOCATED
ON SHEET C1/GE106.
45. FAN COIL UNIT SERVED BY CU-11 AS
SHOWN ON MECHANICAL PLAN LOCATED
ON SHEET F5/GE106.
46. FAN COIL UNIT SERVED BY CU-3 AS
SHOWN ON MECHANICAL PLAN LOCATED
ON SHEET F1/GE102.
47. FAN COIL UNIT SERVED BY CU-2 AS
SHOWN ON MECHANICAL PLAN LOCATED
ON SHEET F1/GE102.
48. FAN COIL UNIT SERVED BY CU-15 AS
SHOWN ON MECHANICAL PLAN LOCATED
ON SHEET C5/GE108.
49. FAN COIL UNIT SERVED BY CU-16 AS
SHOWN ON MECHANICAL PLAN LOCATED
ON SHEET F5/GE108.
50. FAN COIL UNIT SERVED BY CU-18 AS
SHOWN ON MECHANICAL PLAN LOCATED
ON SHEET F1/GE110.
51. FAN COIL UNIT SERVED BY CU-21 AS
SHOWN ON MECHANICAL PLAN LOCATED
ON SHEET F1/GE109.
52. FAN COIL UNIT SERVED BY CU-19 AS
SHOWN ON MECHANICAL PLAN LOCATED
ON SHEET C5/GE111.
53. FAN COIL UNIT SERVED BY CU-20 AS
SHOWN ON MECHANICAL PLAN LOCATED
ON SHEET F5/GE111.
54. FAN COIL UNIT SERVED BY CU-13 AS
SHOWN ON MECHANICAL PLAN LOCATED
ON SHEET F1/GE107.
55. FAN COIL UNIT SERVED BY CU-14 AS
SHOWN ON MECHANICAL PLAN LOCATED
ON SHEET C5/GE108.
56. CONDENSING UNIT TO BE INSTALLED ON
GRADE.
57. FAN COIL UNIT SERVED BY CU-22 AS
SHOWN ON MECHANICAL PLAN LOCATED
ON SHEET C1/GE110.
58. ROOF MOUNTED CONDENSING UNIT CU-2
SERVES UNITS: FC-1-38 (RM 1A08-38)
AS SHOWN ON GE605.

1. REMOVE EXISTING LIGHT FIXTURE AND EXISTING LIGHT SWITCH. CONDUIT, OCCUPANCY AND JUNCTION BOXES SHALL REMAIN IN PLACE AND OPERABLE FOR RE-USE. LIGHT FIXTURE AND SWITCH SHALL BE REPLACED AND ALL INTERCONNECTING WIRING SHALL REMAIN OPERABLE AS ILLUSTRATED ON NEW WORK DRAWINGS.
2. REMOVE EXISTING UPS UNIT. RETURN ALL FUNCTIONAL UPS UNITS TO THE VA. DISCONNECTED. OCCUPANCY SENSAL UPS UNITS USING PROPER METHODS.
3. EXISTING EMERGENCY OUTLET SHALL REMAIN.
4. PROVIDE NEW LIGHT FIXTURE PER LIGHT FIXTURE SCHEDULE AS DETAILED. RECONNECT EXISTING CONDUIT TO POWER NEW LIGHT FIXTURE. PROVIDE AND INSTALL A 20 AMPERE DUAL TECHNOLOGY OCCUPANCY SENSOR/LIGHT SWITCH COMBO TO CONTROL THE LIGHTING.
5. PROVIDE LIGHT FIXTURE PER LIGHT FIXTURE SCHEDULE. EXTEND NEW CRITICAL POWER CIRCUIT BEING PULLED IN TO POWER NEW IT OUTLET. PROVIDE A 20 AMPERE DUAL TECHNOLOGY OCCUPANCY SENSOR/LIGHT SWITCH COMBO TO CONTROL THE LIGHTING.
6. PROVIDE UPS UNIT, APC-SMT2200RM2U (RACK MOUNTED) OR APC-SMT2200. PROVIDE WALL MOUNTED SHELF FOR UPS UNIT. SHELF IS A MINIMUM OF 24" BY 24" IN SIZE AND CAN HOLD A MINIMUM OF 125 LBS. SUBMIT SHELF TO VA AND OIG FOR APPROVAL. SECURE UPS UNIT ON SHELVING UNIT AND SECURE UPS TO SHELF AND WALL. RECONNECT EXISTING IT EQUIPMENT REMOVED/DISCONNECTED ITEM KEYNOTE 2.
7. PROVIDE A FOUR-FLEX RED 1/2" ETS/3. HOSPITAL GRADE WITH STAINLESS STEEL ENGRAVED PLATE, FLUSH MOUNTED, WITH CIRCUIT NUMBER AND CIRCUIT DESCRIPTION. MOUNT ON THE NAME PLATE. PATCH EXISTING WALL AS REQUIRED TO ACCOMMODATE NEW INSTALLATION.
8. PROVIDE A NEW SQUARE D, SINGLE POLE 20 AMPERE, NOOB STYLE BOLTED CIRCUIT BREAKER FOR NEW CIRCUIT. GENERATE AND REPRINT NEW COMPUTER GENERATED, TYPEWRITTEN PANEL CIRCUIT DIRECTORY SCHEDULE WITH THE UPDATE CIRCUITRY INFORMATION.
9. PROVIDE A NEW SQUARE D, SINGLE POLE 20 AMPERE, NOOB STYLE BOLTED CIRCUIT BREAKER FOR NEW CIRCUIT. GENERATE AND REPRINT NEW COMPUTER GENERATED, TYPEWRITTEN PANEL CIRCUIT DIRECTORY SCHEDULE WITH THE UPDATE CIRCUITRY INFORMATION.
10. PROVIDE A 20 AMP THERMAL SWITCH RATED FOR MECHANICAL EQUIPMENT.
11. PROVIDE WATER SENSOR UNDERNEATH RAISED FLOOR. TO BE CONNECTED AND WIRING PROVIDED BY FLOORING BUILDING MANAGEMENT SYSTEM.
12. PROVIDE EMERGENCY SHUT OFF SWITCH FOR ALL IT POWER. LOCATE SWITCH IN PLAIN SIGHT BY EXIT. PROVIDE PLASTIC COVER PROTECTOR FOR SHUT OFF SWITCH.
13. PROVIDE ADEQUATE DRIP SHIELD OVER ALL IT EQUIPMENT.
14. PROVIDE PLASTIC COVER TO PROTECT E SHUT OFF SWITCH.
15. PROVIDE NEW 120/208V 3Ø, 100A SQUARE D PANEL WITH 20 SQUARE 20A SINGLE POLE BREAKER. PULL POWER FROM 4LG62. PROVIDE A 100A, 3 POLE BREAKER FOR CIRCUITRY. PROVIDE AND RELOCATE EXISTING AIR HANDLER UNIT FED FROM 4LG62-20,22,24 TO NEW PANEL. COBBI-2-4.8. USE EXISTING CONDUIT. RE-PULL NEW CONDUCTORS TO MATCH EXISTING AND PROVIDE NEW SINGLE POLE BREAKER. PROVIDE AND RELOCATE EXISTING AIR HANDLER UNIT RE-WIRING.
16. PROVIDE A NEW SQUARE D, 3 PHASE, 10 AMPERE, NOOB STYLE BOLTED CIRCUIT BREAKER FOR NEW CIRCUIT. GENERATE AND REPRINT NEW COMPUTER GENERATED, TYPEWRITTEN PANEL CIRCUIT DIRECTORY SCHEDULE WITH THE UPDATE CIRCUITRY INFORMATION. PROVIDE A 3Ø, 3 PHASE NEW 3Ø 30A 3P CONNECTOR.
17. PROVIDE NEW 120/208V 3Ø, 100A SQUARE D PANEL WITH 20 SQUARE 20A SINGLE POLE BREAKERS. PULL POWER FROM THREE LEAST CRITICAL CIRCUITS CAN BE PULLED FROM THE PANEL. COORDINATE WITH LAB PERSONNEL AND COTR. RE-PULL NEW WIRING BREAKERS; COORDINATE WITH LAB NEW CIRCUIT BREAKER TO MATCH EXISTING FOR RE-WIRED CIRCUIT.

ELECTRICAL
KEYNOTES

1. REMOVE EXISTING LIGHT FIXTURE AND EXISTING LIGHT SWITCH. CONDUIT, OCCUPANCY SENSORS AND JUNCTION BOXES SHALL REMAIN IN PLACE AND OPERABLE FOR RE-USE. LIGHT FIXTURE AND SWITCH SHALL BE REPLACED AND ALL INTERCONNECTING WIRING SHALL REMAIN OPERABLE AS ILLUSTRATED ON NEW WORK DRAWINGS.
2. REMOVE EXISTING UPS UNIT. RETURN ALL FUNCTIONAL UPS UNITS TO THE VA. DISCONNECTED. NOTIFY SIGNAL UNITS USING PROPER METHODS.
3. EXISTING EMERGENCY OUTLET SHALL REMAIN.
4. PROVIDE NEW LIGHT FIXTURE PER LIGHT FIXTURE SCHEDULE AS DETAILED. RECONNECT EXISTING CIRCUIT TO POWER SUPPLY. PROVIDE LIGHT FIXTURE AND INSTALL A 20 AMPERE DUAL TECHNOLOGY OCCUPANCY SENSOR/LIGHT SWITCH COMBO TO CONTROL THE LIGHTING.
5. PROVIDE LIGHT FIXTURE PER LIGHT FIXTURE SCHEDULE. EXTEND NEW CRITICAL POWER CIRCUIT BEING PULLED IN TO POWER NEW IT OUTLET. PROVIDE 20 AMPERE DUAL TECHNOLOGY OCCUPANCY SENSOR/LIGHT SWITCH COMBO TO CONTROL THE LIGHTING.
6. PROVIDE UPS UNIT, APC-SMT2200RMZU (RACK MOUNTED) OR APC-SMT2200. PROVIDE WALL MOUNTED SHELF FOR UPS UNIT. SHELF IS A MINIMUM OF 24" BY 24" IN SIZE AND CAN HOLD A MINIMUM OF 125 LBS. SUBMIT SHELF TO VA AND OIG FOR APPROVAL. SECURE UPS UNIT ON SHELVING UNIT AND SECURE UPS TO SHELF AND WALL. RECONNECT EXISTING IT EQUIPMENT REMOVED/DISCONNECTED ITEM KEYNOTE 2.
7. PROVIDE A FOUR-FLEX RED CIRCUT BREAKER (ECS), HOSPITAL GRADE WITH STAINLESS STEEL ENGRAVED PLATE, FLUSH MOUNTED, WITH CIRCUIT NUMBER 100A. PROVIDE DESIGNED SIGNAGE ON THE NAME PLATE. PATCH EXISTING WALL AS REQUIRED TO ACCOMMODATE NEW INSTALLATION.
8. PROVIDE A NEW SQUARE D, SINGLE POLE 20 AMPERE, NOQB STYLE BOLTED CIRCUIT BREAKER FOR NEW CIRCUIT. GENERATE AND REPRINT NEW COMPUTER GENERATED, TYPEWRITTEN PANEL CIRCUIT DIRECTORY SCHEDULE WITH THE UPDATE CIRCUITRY INFORMATION.
9. PROVIDE A NEW SQUARE D, SINGLE POLE 20 AMPERE, NOQB STYLE BOLTED CIRCUIT BREAKER FOR NEW CIRCUIT. GENERATE AND REPRINT NEW COMPUTER GENERATED, TYPEWRITTEN PANEL CIRCUIT DIRECTORY SCHEDULE WITH THE UPDATE CIRCUITRY INFORMATION.
10. PROVIDE A 20 AMP THERMAL SWITCH RATED FOR MECHANICAL EQUIPMENT.
11. PROVIDE WATER SENSOR UNDERNEATH RAISED FLOOR. TO BE CONNECTED AND MONITORED BY BUILDING MANAGEMENT SYSTEM.
12. PROVIDE EMERGENCY SHUT OFF SWITCH FOR ALL IT POWER. LOCATE SWITCH IN PLAIN SIGHT BY EXIT. PROVIDE PLASTIC COVER PROTECTOR FOR SHUT OFF SWITCH.
13. PROVIDE ADEQUATE DRIP SHIELD OVER ALL IT EQUIPMENT.
14. PROVIDE PLASTIC COVER TO PROTECT E SHUT OFF SWITCH.
15. PROVIDE NEW 120/208V 3Ø, 100A SQUARE D PANEL WITH 20 SPARE 20A SINGLE POLE BREAKER. PULL POWER FROM 4LG62. PROVIDE A 100A, 3 POLE BREAKER FOR CIRCUITRY. RELOCATE EXISTING AIR HANDLER UNIT FED FROM 4LG62-20,22,24 TO NEW PANEL. ACBB1-2-A-B USE EXISTING CONDUIT. RE-PULL NEW CONDUCTORS TO MATCH EXISTING AND PROVIDE NEW SINGLE POLE BREAKER. RE-WIRE AIR HANDLING FOR AIR HANDLER UNIT RE-WIRING.
16. PROVIDE A NEW SQUARE D, 3 PHASE, 10 AMPERE, NOQB STYLE BOLTED CIRCUIT BREAKER FOR NEW CIRCUIT. GENERATE AND REPRINT NEW COMPUTER GENERATED, TYPEWRITTEN PANEL CIRCUIT DIRECTORY SCHEDULE WITH THE UPDATE CIRCUITRY INFORMATION. PROVIDE A 3Ø, 3 PHASE NEVA 3P3S CONNECTOR TO NEW CIRCUITRY.
17. PROVIDE NEW 120/208V 3Ø, 100A SQUARE D PANEL WITH 20 SPARE 20A SINGLE POLE BREAKERS. PULL POWER FROM THREE LAST ESSENTIAL CIRCUITS CAN BE USED. CAN BE USED WITH LAB PERSONNEL AND CONTR. RE-PULL NEW CONDUCTORS; COORDINATE WITH THE NEW CIRCUIT BREAKER TO MATCH EXISTING FOR RE-WIRED CIRCUIT.

FINAL CONSTRUCTION DOCUMENTS

Office of
Construction
and Facilities
Management

